AN 111:63755 CA

TI Cationic and amphoteric polymers with conditioning effect for ***hair***
preparations

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SO Jpn. Kokai Tokkyo Koho, 9 pp. CODEN: JKXXAF

DT Patent

.LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01092211	A2	19890411	JP 1987-250360	19871003
	JP 06051617	B4	19940706		
PRA	JP 1987-250360 >		19871003		

AB Cationic and amphoteric polymers having quaternized structure repeating units CH2CR1 (COA1R2N+R3Me2X-) [R1 = H, Me; R2 = C1-4 alkylene; R3 = C1-4 alkyl, CH2Ph, CH2CH2OH, glycidyl, CH2CH(OH)Me, CH2CH(OH) (OCH2CH2)nOH; A1 = 0, NH; X = Br, C1, I, MeSO4, EtSO4; n = 1-9] 5-60, amphoteric structure repeating units CH2CR4 (COA2R5N+R6Me2CO2-) (R4 = H, Me; R5, R6 = C1-4 alkylene; A2 = 0, NH) 95-40, and other structure repeating units 0-50 mol%, have good conditioning effect and are useful for ***hair*** prepns. The polymers are compatible with anionic compds., do not build up on ***hair***, reduce electrostatic charge, and facilitate combing and styling. A shampoo contained 30% aq. cocoamidopropyl betaine soln. 10, 27% aq. poly(oxyethylene) lauryl ether sulfate triethanolamine salt soln. 10, cationic and amphoteric polymer [av. mol. wt. 120,000, prepd. from (dimethylamino)propyl methacrylate 1.0, EtBr 0.05, and C1CH2CO2K 0.95 mol] 1, and H2O to 100 parts by wt.

IC ICM C08F220-34

ICS A61K007-06; A61K007-075; C08F220-34; C08F220-36

ICI C08F220-34, C08F220-36; C08F220-36, C08F220-34

CC 62-3 (Essential Oils and Cosmetics)

ST ***cationic*** ***amphoteric*** ***polymer*** ***hair***
prepn conditioner

IT Shampoos

IT

(cationic and amphoteric polymers in, with good conditioning effect)

IT ***Hair*** preparations

(conditioners, cationic and amphoteric polymers in)

74-96-4D, Ethyl bromide, reaction products with dimethylamino-contg.

methacrylic polymers and monochloroacetic acid salts 540-51-2D, Ethylene
bromohydrin, reaction products with dimethylamino-contg. methacrylic
polymers and monochloroacetic acid salts 540-54-5D, Propyl chloride,
reaction products with dimethylamino-contg. methacrylic polymers and
monochloroacetic acid salts 7748-25-6D, Potassium monochloroacetate,
reaction products with quaternized amino-contg. methacrylic polymers
24145-67-3D, reaction products with quaternized amino-contg. methacrylic
polymers 26658-83-3D, Butyl methacrylate-(dimethylamino)ethyl
methacrylate copolymer, reaction product with alkyl halides and
monochloroacetic acid salts 29531-62-2D, reaction product with alkyl
halides and monochloroacetic acid salts 53466-45-8D, reaction product
with alkyl halides and monochloroacetic acid salts 121859-51-6D,

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reaction product with alkyl halides and monochloroacetic acid salts RL: BIOL (Biological study)

hair prepns. contg., with good conditioning effects)

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